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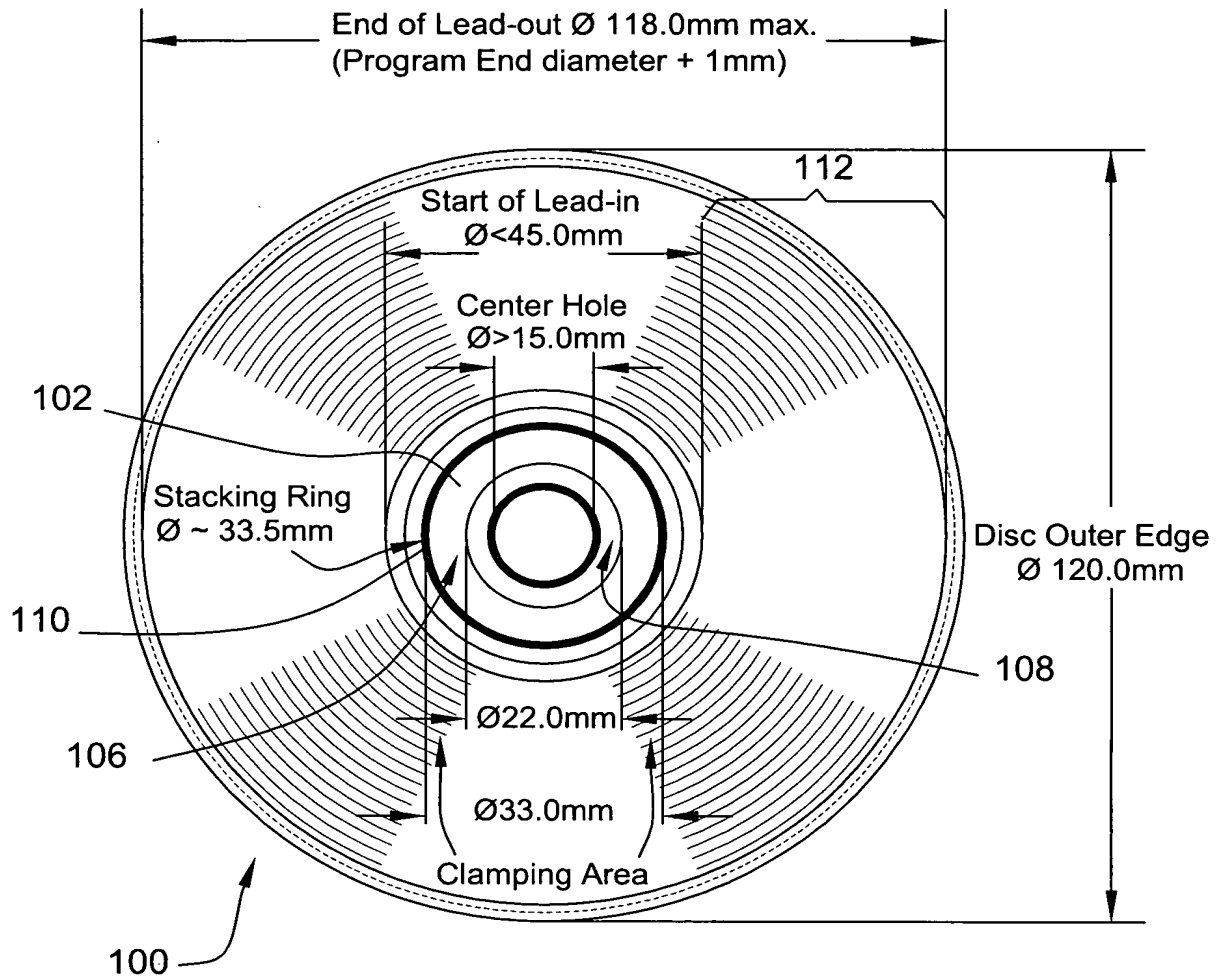
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FIG. 1

DVD DIMENSIONS



Patent Application No. 2004/0111111
Filed 10/15/04
Inventor: [Name]
Attorney: [Name]

FIG. 2A
Single-Sided, Single Layer Disc

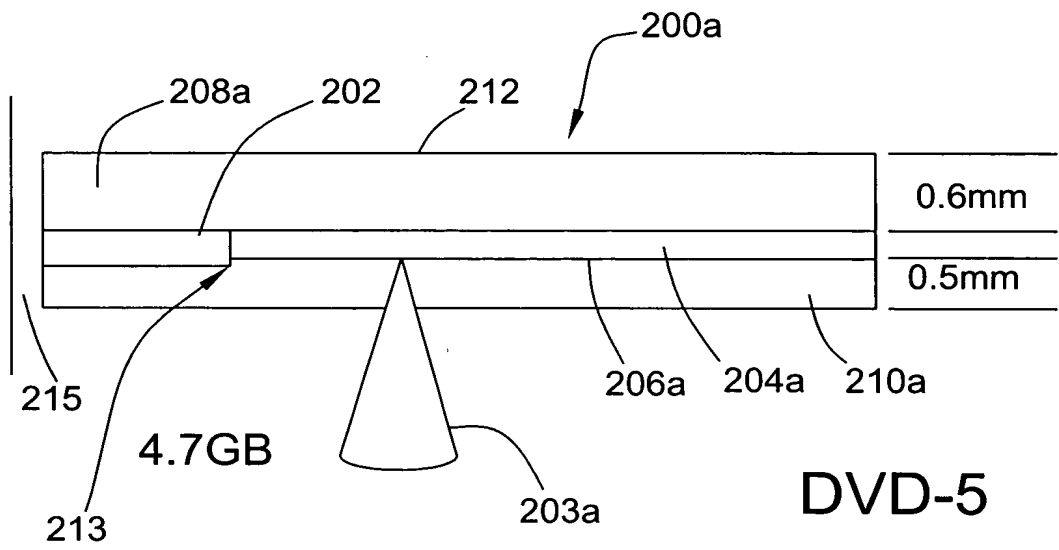


FIG. 2B

Single-Sided Double Layer Disc

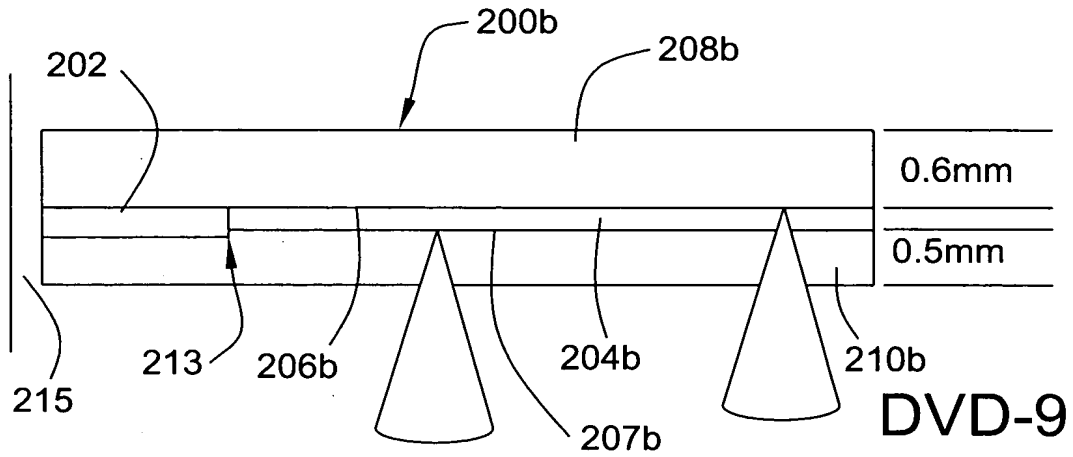
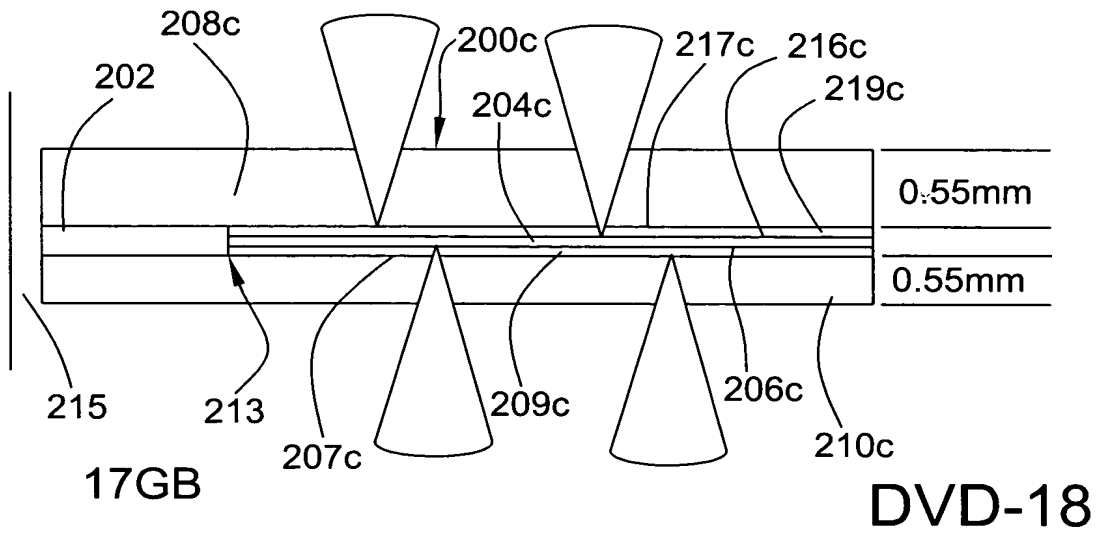


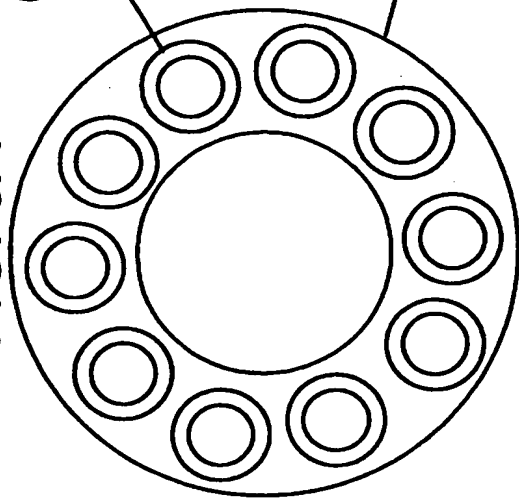
FIG. 2C

Double-Sided Dual Layer Disc



Coil Geometry and Placement
(Within Clamping Area of Disc)

FIG. 3A



SMALL COILS

LARGE COILS

OUTER RIM

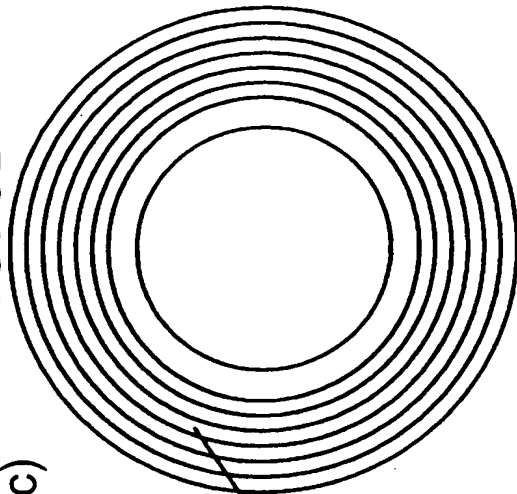
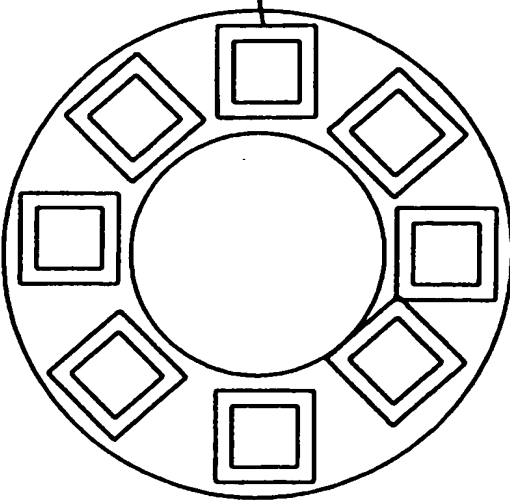


FIG. 3D

FIG. 3B

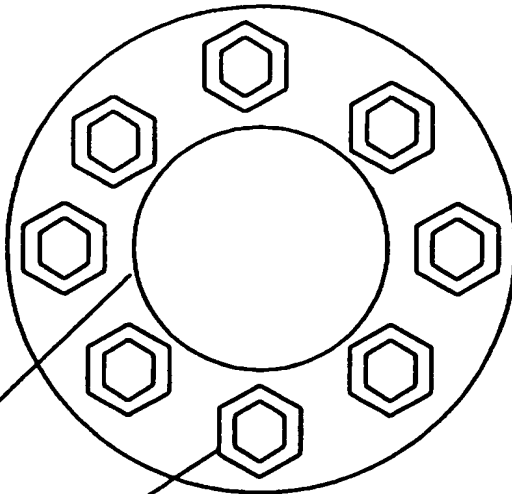


SMALL COILS

SMALL COILS

INNER RIM

FIG. 3C



After Initial Molding/Bonding and Before Stripping

For DVD 18

Layer 0
Partial Reflect Layer
Bonding Layer
100% Reflect Layer
Layer 1

DVD 9 Side "A"

0.55 mm Polycarbonate
Gold/Silver (10 microns)
Bonding Lacquer
Aluminum
0.55 mm Acrylic Blank

DVD 9 Side "B"

0.55 mm Polycarbonate
Gold/Silver
Bonding Lacquer
Aluminum
0.55 mm Acrylic Blank

FIG. 4A

For DVD 14

Layer 0
1st Reflect Layer
Bonding Layer
2nd Reflect Layer
Layer 1

DVD 9 Side "A"

0.55mm Polycarbonate
Gold/Silver (10 microns)
Bonding Lacquer
Aluminum
0.55 mm Acrylic

DVD 5 Side "B"

0.55 Polycarbonate
Aluminum
N/A
N/A
N/A

FIG. 4B

After Stripping

For DVD 18

Layer 0
Partial Reflect Layer
Bonding Layer
100% Reflect Layer

DVD 9 Side "A"

0.55 mm Polycarbonate
Gold/Silver
Bonding Lacquer
Aluminum (Image of layer 1)

DVD 9 Side "B"

**0.55 mm Polycarbonate
Gold/Silver
Bonding Lacquer
Aluminum**

FIG. 5A

For DVD 14

Layer 0
1st Reflect Layer
Bonding Layer
2nd Reflect Layer

DVD 9 Side "A"

0.55 mm Polycarbonate
Gold (partial reflect layer)
Bonding Lacquer
Aluminum (Image of layer 1)

DVD 5 Side "B"
(Not Stripped)

0.55 mm Polycarbonate
Aluminum
N/A
N/A

FIG. 5B

After Final Assembly

For DVD 18

Layer 0 (disc A)
Partial Reflect Layer (disc A)
1st Bonding Layer (disc A)
100% Reflect Layer (disc A)
Protective Coating
2nd Bonding
Protective Coating
100% Reflect Layer (disc B)
1st Bonding Layer (disc B)
Partial Reflect Layer (disc B)
Layer 0 (disc B)

(2 layers readable from this side)
0.55 mm Polycarbonate
Gold/Silver
Bonding Lacquer
Aluminum (Image of layer 1)
PC Lacquer
Cationic Bonding
PC Lacquer
Aluminum (Image of layer 1)
Bonding Lacquer
Gold/Silver
0.55 mm Polycarbonate
(2 layers readable from this side)

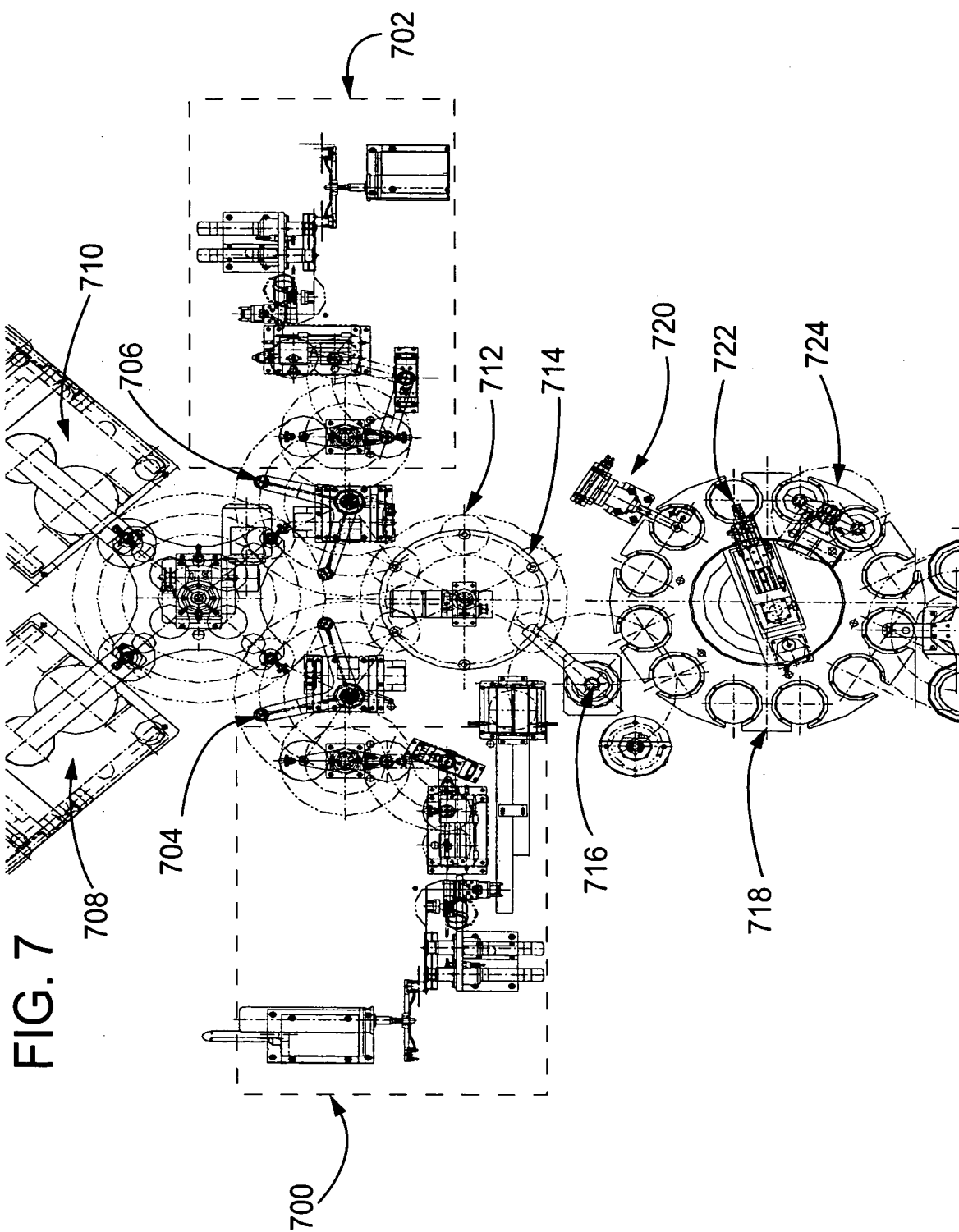
FIG. 6A

For DVD 14

Layer 0 (disc A)
Partial Reflect Layer (disc A)
1st Bonding Layer (disc A)
100% Reflect Layer (disc A)
Protective Coating
2nd Bonding
Protective Coating
100% Reflect Layer (DVD 5)
Layer 0 (DVD 5)

(2 layers readable from this side)
0.55 mm Polycarbonate
Gold/Silver
Bonding Lacquer
Aluminum (Image of layer 1)
PC Lacquer
Cationic Bonding
PC Lacquer
Aluminum
0.55 mm Polycarbonate
(1 layer readable from this side)

FIG. 6B



Replication Process

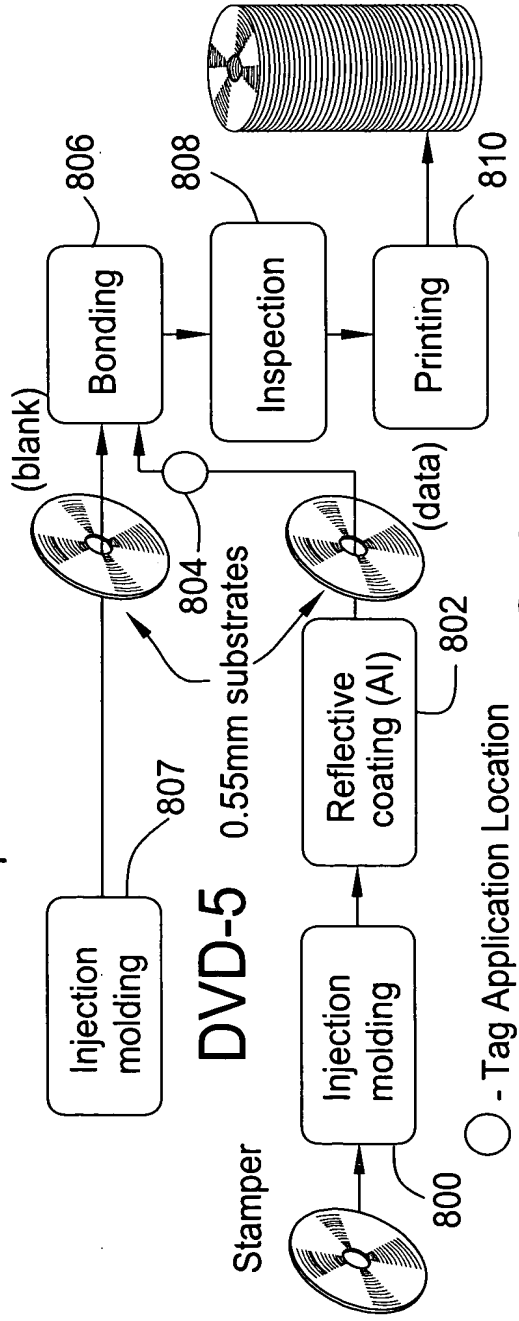


FIG. 8A

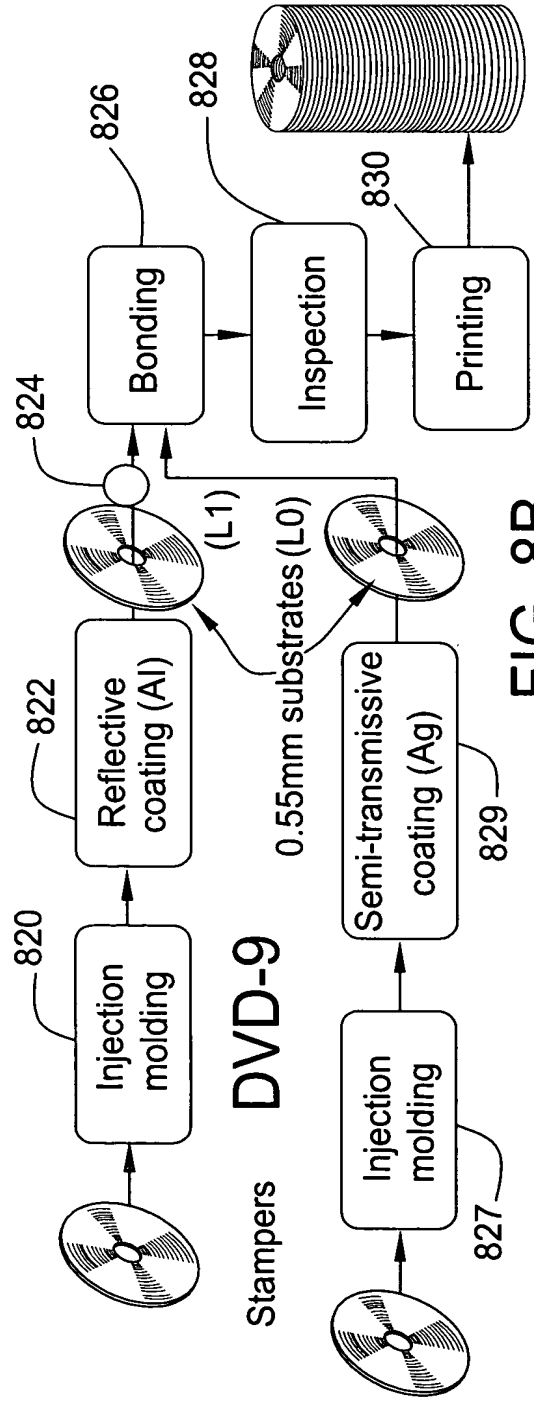


FIG. 8B